

## Fresno Irrigation District 2012 LGA Grant

### 6 Attachment 6 – Budget

<b>Table 3. Budget Table</b>				
<b>Task</b>	<b>Description</b>	<b>Non-State Share (Funding Match)</b>	<b>Requested Grant Funding</b>	<b>Total</b>
1	Design of Measurement Improvements work by (work in kind by	Work in kind by District staff	\$2,500	\$2,500
2	Measurement Improvement Construction	\$0	\$245,000	\$245,000
3	Reporting	Work in kind by District staff	\$2,500	\$2,500
	<b>Grand Total (Sum the rows for each column)</b>	\$0	\$250,000	\$250,000

A detailed breakdown by task is provided in **Figure 10**, and an estimate of typical construction costs are included as **Figures 11-1 through 11-4**. Estimated totals for each site can be found in **Table 1**. It should be noted that based on the outcome of surveys and specific site conditions, the meter design may change slightly at each site and different meters/structures may be required to allow proper function. **Figures 11-1 through 11-4** take this into account and provide an estimate as to what a typical site would cost. **Exhibit 6.2 and 6.3** is a quote provided for a meter that is under evaluation of the District. Consultant fees were provided by the District's consulting engineer and are consistent with similar work completed in the region that are exempt from prevailing wage since the District will be performing the work themselves. Since the District will be performing their own work, a third party will not be required to enforce the Department of Industrial Relations-certified Plan. Therefore a budget was not assigned specifically to Labor Compliance. Additional detail on the cost estimate follows:

#### **Environmental**

It is believed that the installation of metering and measurement equipment on the District's existing facilities classifies as a Class 1 Exemption under Section 15301 of the CEQA Guidelines as minor alterations of an existing facility or a Class 3 'Small New Facilities' Exemption. All other work is anticipated to fall under Class 6 'Basic Data Collection' Exemption. A nominal budget has been included for preparation of an exemption.

#### **Construction Drawings**

The budget includes review time from the District's consultant engineer as a measure of quality assurance and quality control.

## **Fresno Irrigation District 2012 LGA Grant**

### **Reporting**

The budget includes review time during the progress, draft and final reports from the Districts consultant engineer as a measure of quality assurance and quality control.

### **Project Tracking and Billing**

It is proposed to track and bill the project according to the three (3) tasks in the budget.

### **Contingency**

The cost estimate values shown include a contingency of 5%. FID is prepared to pay for extra costs if they exceed the estimate.

### **District Contribution**

The District is requesting a \$250,000 grant and will fund the remainder of the project through the use of District labor for the survey, design and construction of improvements. A detailed breakdown of costs by task is included as **Figure 10**, and an estimate of the labor for construction is included as **Figure 11**.

The District will also make other contributions to project costs that are not included in the cost estimate. These include the following:

- 1) District staff time to administer and manage the project through meetings with the consulting engineer, Board meetings, meetings with other water agencies, TAC meetings, and review of project submittals.
- 2) Future groundwater monitoring efforts (refer to Attachment 4.9 – Post Project Efforts and Funding). Attached as **Exhibit 6.1** is a copy of the District's 2012 budget that will support these monitoring efforts in the future.

# Fresno Irrigation District 2012 LGA Grant



FIGURE 10- DETAILED COST BREAKDOWN OF WORKPLAN

## FRESNO IRRIGATION DISTRICT GROUNDWATER RECHARGE MEASUREMENT IMPROVEMENT PROJECT

Revised 7-10-12

	Consultant Costs			District Labor Hours							Direct Costs			Administrative Costs				Totals		
	Principal Engineer	Associate Engineer	Senior Planner	FID Principal Engineer	FID Senior Engineer	FID Associate Engineer	FID Assistant Technician	FID GIS Specialist	Clerical		Surveying	Construction	Legal Services	Mileage at \$0.55/mi.	Printing & Postage	Communications	Other Costs	Total Hours	Total Cost	DWIR Funded
STAFF HOURS																				
Rate / Hour	\$150	\$100	\$140																	
<b>Task 1 - Design of Measurement Improvements</b>																		<b>Task 1 Total =</b>	<b>\$2,500</b>	<b>\$2,500</b>
1.1 Prepare Environmental Documents			4		2		8											14	\$560	
1.2 Survey of Existing Facilities				5	4		4											13	\$0	
1.3 Prepare Construction Drawings and Specifications	4	13		10	40	80	80		8									235	\$1,940	
<b>Task 2 - Measurement Improvement Construction</b>																		<b>Task 2 Total =</b>	<b>\$245,000</b>	<b>\$245,000</b>
2.1 Construction of Improvements				6	16		16				\$245,000							38	\$245,000	
2.2 Construction Inspection and Observation				8	40													48	\$0	
2.3 Prepare Record Drawings				4	8		40											52	\$0	
<b>Task 3- Reporting</b>																		<b>Task 3 Total =</b>	<b>\$2,500</b>	<b>\$2,500</b>
3.1 Progress Reports	1	2		8	16		32											59	\$350	
3.2 Measurement Readings					16		24											40	\$0	
3.3 Public Information and Awareness				8	16				8									32	\$0	
3.4 Draft Project Report	4	4		8	16		32	8	8									80	\$1,000	
3.5 Final Project Report	4	6		4	8		20	4	20									66	\$1,150	
<b>Total Hours:</b>	13	25	4	61	182	80	256	12	44											
<b>Total Cost:</b>	\$1,950	\$2,490	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245,000	\$0	\$0	\$0	\$0	\$0	\$0	677	\$250,000	\$250,000

TOTAL ESTIMATED PROJECT COST: = \$250,000

TOTAL FUNDING REQUESTED FROM DWR = \$250,000

- 1) Refer to **Table 1** for estimated cost at each of the sites planned for construction
- 2) Refer to **Figure 11** for a sample construction cost estimate showing a detailed breakdown.



**Figure 11-1**  
**Fresno Irrigation District**  
**Groundwater Recharge Measurement Improvement Project**  
**Sample Cost Estimate for \$35,000 Typical Basin Improvement**

Item	Description	Quantity	Unit	Unit Cost		Subtotals		Total
				Labor	Materials	Labor	Material	
1	New Pipeline material from turnout to flowmeter standpipe	25	LF		\$ 80	\$ -	\$ 2,000	\$ 2,000
2	Labor to remove and replace pipe from turnout to flowmeter stand	25	LF	75		\$ 1,875	\$ -	\$ 1,900
3	Construct Flowmeter Standpipe with Cover	2	EA	4000	\$ 4,400	\$ 8,000	\$ 8,800	\$ 16,800
4	Furnish and Install Flowmeter	2	EA	500	\$ 5,000	\$ 1,000	\$ 10,000	\$ 11,000
5	Furnish and Install Staff Gauge in Basin	1	EA	200	\$ 900	\$ 200	\$ 900	\$ 1,100
						<b>Subtotals =</b>	<b>\$ 11,075 \$ 21,700</b>	<b>\$ 32,800</b>
						<b>Contingency (5%) =</b>	<b>\$ 553.8 \$ 1,085.0</b>	<b>\$ 1,600</b>
						<b>Total =</b>	<b>\$ 11,629 \$ 22,785</b>	<b>\$ 35,000</b>

**Figure 11-2**  
**Fresno Irrigation District**  
**Groundwater Recharge Measurement Improvement Project**  
**Sample Cost Estimate for \$30,000 Typical Basin Improvement**

Item	Description	Quantity	Unit	Unit Cost		Subtotals		Total
				Labor	Materials	Labor	Material	
1	New Pipeline material from turnout to flowmeter standpipe	50	LF		\$ 80	\$ -	\$ 4,000	\$ 4,000
2	Labor to remove and replace pipe from turnout to flowmeter stand	50	LF	75		\$ 3,750	\$ -	\$ 3,800
3	Construct Flowmeter Standpipe with Cover	1	EA	4200	\$ 5,000	\$ 4,200	\$ 5,000	\$ 9,200
4	Furnish and Install Flowmeter	1	EA	500	\$ 10,000	\$ 500	\$ 10,000	\$ 10,500
5	Furnish and Install Staff Gauge in Basin	1	EA	250	\$ 900	\$ 250	\$ 900	\$ 1,150
						<b>Subtotals =</b>	<b>\$ 8,700 \$ 19,900</b>	<b>\$ 28,700</b>
						<b>Contingency (5%) =</b>	<b>\$ 435.0 \$ 995.0</b>	<b>\$ 1,400</b>
						<b>Total =</b>	<b>\$ 9,135 \$ 20,895</b>	<b>\$ 30,000</b>



**Figure 11-3**  
**Fresno Irrigation District**  
**Groundwater Recharge Measurement Improvement Project**  
**Sample Cost Estimate for \$25,000 Typical Basin Improvement**

Item	Description	Quantity	Unit	Unit Cost		Subtotals		Total
				Labor	Materials	Labor	Material	
1	New Pipeline material from turnout to flowmeter standpipe	25	LF		\$ 80	\$ -	\$ 2,000	\$ 2,000
2	Labor to remove and replace pipe from turnout to flowmeter stand	25	LF	75		\$ 1,875	\$ -	\$ 1,900
3	Construct Flowmeter Standpipe with Cover	1	EA	4200	\$ 4,000	\$ 4,200	\$ 4,000	\$ 8,200
4	Furnish and Install Flowmeter	1	EA	500	\$ 10,000	\$ 500	\$ 10,000	\$ 10,500
5	Furnish and Install Staff Gauge in Basin	1	EA	250	\$ 900	\$ 250	\$ 900	\$ 1,200
<b>Subtotals =</b>						<b>\$ 6,825</b>	<b>\$ 16,900</b>	<b>\$ 23,800</b>
<b>Contingency (5%) =</b>						<b>\$ 341.3</b>	<b>\$ 845.0</b>	<b>\$ 1,200</b>
<b>Total =</b>						<b>\$ 7,166</b>	<b>\$ 17,745</b>	<b>\$ 25,000</b>

**Figure 11-4**  
**Fresno Irrigation District**  
**Groundwater Recharge Measurement Improvement Project**  
**Sample Cost Estimate for \$15,000 Typical Basin Improvement**

Item	Description	Quantity	Unit	Unit Cost		Subtotals		Total
				Labor	Materials	Labor	Material	
1	New Pipeline material from turnout to flowmeter standpipe	25	LF		\$ 70	\$ -	\$ 1,750	\$ 1,750
2	Labor to remove and replace pipe from turnout to flowmeter stand	25	LF	60		\$ 1,500	\$ -	\$ 1,500
3	Construct Flowmeter Standpipe with Cover	1	EA	2000	\$ 2,500	\$ 2,000	\$ 2,500	\$ 4,500
4	Furnish and Install Flowmeter	1	EA	500	\$ 5,000	\$ 500	\$ 5,000	\$ 5,500
5	Furnish and Install Staff Gauge in Basin	1	EA	250	\$ 900	\$ 250	\$ 900	\$ 1,150
<b>Subtotals =</b>						<b>\$ 4,250</b>	<b>\$ 10,150</b>	<b>\$ 14,400</b>
<b>Contingency (5%) =</b>						<b>\$ 212.5</b>	<b>\$ 507.5</b>	<b>\$ 700</b>
<b>Total =</b>						<b>\$ 4,463</b>	<b>\$ 10,658</b>	<b>\$ 15,000</b>

# **EXHIBIT 6.1**

## **GENERAL FUND BUDGET**

FRESNO IRRIGATION DISTRICT

7/3/2012

2012 BUDGET

EXHIBIT 6.1

General Fund

2012  
Budget  
12/13/2011

	EXPENSES			
	<b>Delivery System Operations &amp; Maintenance</b>			
1	Chemical Materials - Aquatic	71350	320,000.00	99%
2	Chemical Materials - Other	71400	250,000.00	44%
3	Co-op Expenses	71500	6,200.00	99%
4	O&M - Telemetry System	73200	15,000.00	14%
5	Permits & Fees	73250	4,000.00	98%
6	Radio/GPS Expense	73400	17,000.00	21%
7	Repairs & Maintenance - Canal Structure	13300, 73600	90,000.00	314%
8	Repairs & Maintenance - Flowmeter	73700	5,000.00	36%
9	Repairs & Maintenance - Gates	73750	15,000.00	59%
10	Repairs & Maintenance - Pumps	73800	5,000.00	6%
11	Repairs & Maintenance - Trash Racks	73850	5,000.00	27%
12	Small Tools - Maintenance Dept.	75250	7,000.00	12%
13	Supplies - Water Dept.	75650	15,000.00	80%
14	Supplies - Maintenance Dept.	75550	50,000.00	50%
15	Telephone - Cellular	75750	33,000.00	66%
16	Utilities - Electric - Pumps/Motors	76250	40,000.00	91%
	<b>Total Delivery System Ops &amp; Maint.</b>		<b>\$ 877,200.00</b>	95%

FRESNO IRRIGATION DISTRICT

7/3/2012

2012 BUDGET

General Fund			2012 Budget 12/13/2011	
	<b>Other Maintenance</b>			
17	Diesel Fuel	71650	155,000.00	70%
18	Equipment & Materials - Safety	71900	16,000.00	112%
19	Equipment Rental & Expense	13200, 71950, 72100, 72200	13,000.00	38%
20	Fabrication Materials - Shop	71800	8,000.00	91%
21	Gasoline & Oil	72250	255,000.00	99%
22	Rental Properties Expense	16220/73500	10,000.00	16%
23	Repairs & Maintenance - Autos & Trucks	73550	55,000.00	79%
24	Repairs & Maintenance - Field Equipment	73650	30,000.00	62%
25	Small Tools - Shop	75300	5,000.00	73%
26	Supplies - Shop	75600	30,000.00	73%
27	Tires	75850	25,000.00	50%
28	Training - Safety	75950	6,000.00	59%
29	Yard & Office Expense	76500	60,000.00	60%
	<b>Total Other Maintenance</b>		<b>\$ 668,000.00</b>	80%
	<b>KRWA Expense</b>			
30	KRWA - Assessments	72700	230,000.00	88%
31	KRWA - Fisheries	72750	12,000.00	86%
32	O&M - Pine Flat Dam	73150	75,000.00	100%
	<b>Total KRWA Expense</b>		<b>\$ 317,000.00</b>	91%



**FRESNO IRRIGATION DISTRICT**

7/3/2012

**2012 BUDGET**

<b>General Fund</b>			<b>2012 Budget 12/13/2011</b>	
	<b>Wages and Salaries</b>			
33	Administration	71150-10, 74210, 74500	755,000.00	89%
34	Directors	74200	22,500.00	88%
35	Engineering	71150-20, 74220	484,000.00	103%
36	Maintenance	13100, 74240, 743XX	1,063,000.00	85%
37	Maintenance Crews - Outside Labor	72830	45,000.00	65%
38	Shop	74230	256,000.00	84%
39	Temporary Agencies	75800	20,000.00	73%
40	Water Operations	74250	1,640,000.00	86%
	<b>Total Wages and Salaries</b>		<b>\$ 4,285,500.00</b>	88%
	<b>Employee Benefits</b>			
41	Insurance - Dental & Vision	72350	134,000.00	87%
42	Insurance - Group Health	72400	580,000.00	80%
43	Insurance - Life & Disability	72450	92,000.00	84%
44	Insurance - Worker's Compensation	72550	200,000.00	69%
45	Medicare Tax	72900	62,000.00	84%
46	Retirement Plan Expense	73900	257,000.00	69%
47	Social Security Tax	75350	262,000.00	83%
48	State Unemployment Insurance	75400	18,500.00	86%
	<b>Total Employee Benefits</b>		<b>\$ 1,605,500.00</b>	78%
	<b>Professional Services</b>			
49	Auditing	71100	15,000.00	100%
50	Consultants	71450	90,000.00	13%
51	Legal	72800	75,000.00	42%
52	Public Information	73350	5,000.00	48%
53	Services - Assessments	75050	20,000.00	13%
54	Services - Computer Support	75100	90,000.00	97%
55	Services - Employee Benefits	75150	15,000.00	34%
56	Training - General	75900	17,000.00	24%
	<b>Total Professional Services</b>		<b>\$ 327,000.00</b>	49%

**FRESNO IRRIGATION DISTRICT**

7/3/2012

**2012 BUDGET**

<b>General Fund</b>			<b>2012 Budget 12/13/2011</b>	
	<b>Utilities</b>			
<b>57</b>	Electric & Gas	76300	75,000.00	78%
<b>58</b>	Telephone	75700	25,000.00	57%
<b>59</b>	Waste Disposal	76350	30,000.00	83%
	<b>Total Utilities</b>		<b>\$ 130,000.00</b>	75%
	<b>Operating Expenses</b>			
<b>60</b>	Bank Service Charges	71200	-	0%
<b>61</b>	Damage Claims	71550	1,000.00	113%
<b>62</b>	Drug Screening	71700	15,000.00	81%
<b>63</b>	Dues & Subscriptions	71750	40,000.00	80%
<b>64</b>	Election Costs	71850	20,000.00	0%
<b>65</b>	Equipment Expense - Office	72150	5,000.00	126%
<b>66</b>	Incentives & Rewards	72300	7,000.00	19%
<b>67</b>	Insurance - Property & Liability	72500	160,000.00	110%
<b>68</b>	Interest Expense	72600	-	0%
<b>69</b>	Janitorial Services & Supplies	72650	60,000.00	37%
<b>70</b>	Media Expense	72850	6,000.00	32%
<b>71</b>	Miscellaneous	72950	3,171.16	30%
<b>72</b>	Postage & Freight	73300	7,700.00	78%
<b>73</b>	Services - General Office	75200	36,000.00	82%
<b>74</b>	Supplies - Engineering	75450	5,000.00	67%
<b>75</b>	Supplies - General Office	75500	35,000.00	53%
<b>76</b>	Travel & Conference	76100, 76150	26,000.00	66%
	<b>Total Operating Expenses</b>		<b>\$ 426,871.16</b>	77%
<b>Total Expenses</b>			<b>\$ 8,637,071.16</b>	84%

FRESNO IRRIGATION DISTRICT

7/3/2012

2012 BUDGET

General Fund			2012 Budget 12/13/2011
	Fund Transfers		
77	Transfer to Construction Fund (Bond Pmt)	99990	910,960.42
	Total Fund Transfers		\$ 910,960.42
Total Expenses & Fund Transfers			\$ 9,548,031.58
Net Fund Activity			\$ -
Ending Fund Balance			\$ 6,212,177.40

**EXHIBIT 6.2**  
**ARGONAUT IQ**  
**FLOWMETER**

## Product Introduction: The SonTek-IQ

Over the years the demand for monitoring flow in open channels has evolved significantly. Climate change and water scarcity issues have increased the demand to quantify increasingly smaller flows. In the past, the irrigation community has applied a variety of technologies for “good enough” or “close enough” flow measurements and total volume deliveries. SonTek has been involved in measuring flow for almost 20 years, and decided to take on the challenge of developing an affordable instrument that can accurately measure flow.

Combining our previous expertise with feedback from the flow monitoring industry, engineers at SonTek took on the challenge. Working with funding from a Small Business Innovation Research (SBIR) grant from the United States Department of Agriculture (USDA) SonTek has developed an innovative and advanced solution for monitoring in open channels; the SonTek-IQ or commonly known as the IQ. The IQ has been extensively tested at flow laboratories and field sites making sure that the solution is not only robust and provides high quality data, but also is user friendly and easy to use.

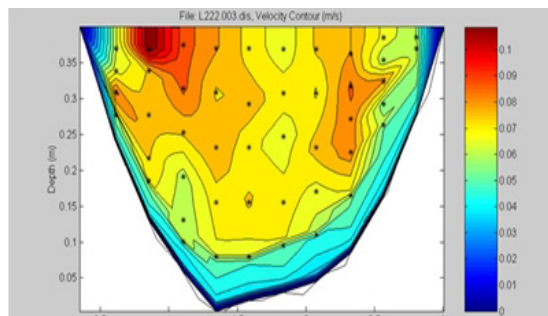
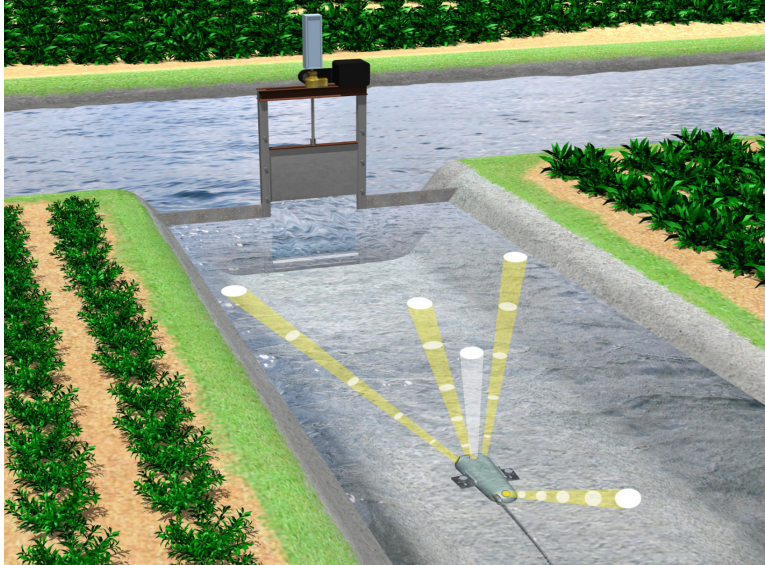
The IQ is an intelligent flow meter specifically designed for measuring flow in open channels. The innovative 5-beam design incorporates a vertical beam and four velocity profiling beams. The vertical beam works in tandem with

a high-resolution pressure sensor to define water level that is then used to compute channel cross-sectional area (via a user entered cross-sectional survey). The four velocity profiling beams measure the horizontal and vertical distribution of velocities in the channel - in the end the IQ provides accurate flow data that you can make decisions on. There are two versions of the IQ, a standard version and a **SonTek-IQ Plus** version.

The IQ is a bottom mounted system or otherwise known as an “up-looker”. The IQ collects the horizontal and vertical distribution of water velocity as well as water level data

to determine flow. After talking extensively with water managers in the water industry, SonTek determined that having reliable and dependable flow data from the field is important for decision making. Existing technologies provide data, but the data have limitations due to the accuracy that can create problems.

For example, is an Irrigation District providing the farmer the right amount of water? Not enough water means an unhappy farmer; while too much water means that the Irrigation District could have sold that water elsewhere and made more money. Bottom line is that water is a valuable resource and the IQ can give you data that you can make sound decisions on.



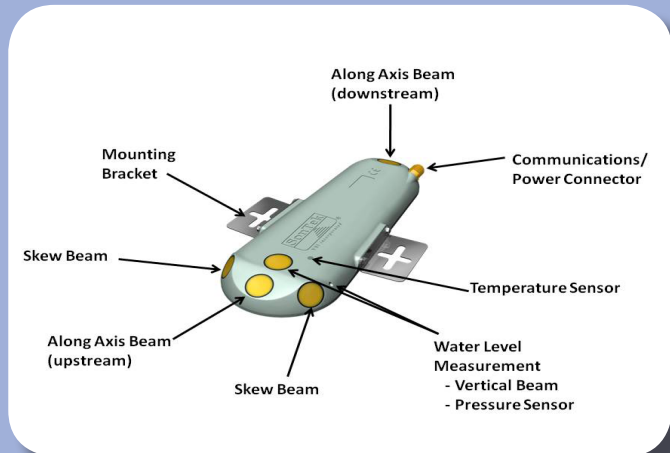
*Here is an example of a FlowTracker measurement and corresponding isovel map – data from these measurements and hundreds more were used to define beam geometries and flow algorithms. In the end, the IQ is a that collects data that you can make decisions on.*

	Operating Range (m)	Velocity Output	Software
<b>IQ</b>	0.08 – 1.5 m	SmartPulse <sup>HD</sup> Average Velocity	Standard data display, no data reprocessing
<b>IQ Plus</b>	0.08 – 5.0m	SmartPulse <sup>HD</sup> Velocity Profiles (cell sizes as small as 2 cm)	Advanced data display and data reprocessing

The SonTek-IQ software package is the starting point for interfacing with the instrument. The “SmartPage” has built-in icons that guide users through the configuration steps

## SonTek-IQ Attributes:

- ◆ Two along-axis velocity profiling beams (25° off the vertical axis)
  - Measures vertical stratification of channel velocities
- ◆ Two skew velocity profiling beams (60° off the vertical axis and horizontal axis)
  - Measures the horizontal distribution of channel velocities
- ◆ Intelligent adaptive sampling via SmartPulse<sup>HD</sup>
  - Dynamic selection and optimization of the acoustic pulsing scheme based on water depth, flow velocity and turbulence
- ◆ Robust water level
  - Combines data from vertical beam and integrated pressure sensor

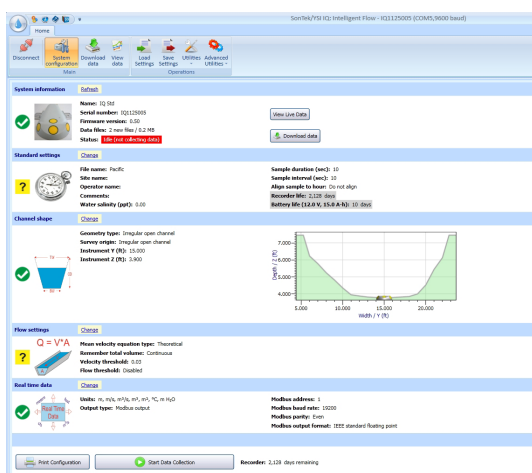


- ◆ High resolution temperature sensor
- ◆ Communicates via RS-232, SDI-12 and Modbus
- ◆ Mounting brackets allow for a quick and easy installation
- ◆ External power (7- 15 VDC) required
- ◆ 4 GB internal recorder provides data storage for years

to collect the best possible data. After configuring the IQ, data collection and downloading is easy. Simply connect to the system to download data files – the software organizes data files like a database; files can be sorted by Site name, File name, IQ Serial number and Operator name, allowing users to find and use data quickly and easily. The organized structure of icons at the top of the screen provides users quick an easy option for creating graphs and viewing tabular data. Creating reports are easy – graphs generated by the IQ software can be copied and saved and then pasted or inserted into any document. Want to run some statistics on the data?

You can do that too, with just one click.

Water users will come to the conclusion quickly that the SonTek-IQ was designed and built with the end user in mind. From installation and integration to configuration for data collection to downloading and data processing, the IQ is remarkably easy to use. In addition, water managers around the world will appreciate the accuracy of the IQ; finally an easy to use and affordable flow monitoring solution that provides flow data that can be used for decision making.



*IQ Software SmartPage*



*Example of the SonTek-IQ installation in a small canal.*

SonTek/YSI, founded in 1992 and advancing environmental science in over 100 countries, manufactures affordable, reliable acoustic Doppler instruments for water velocity measurement in oceans, rivers, lakes, harbors, estuaries, and laboratories. SonTek, and SonTek-IQ are trademarks of YSI Inc., Yellow Springs, OH, USA. The SonTek-IQ is made in the USA. Specifications are subject to change without notice. This material is based upon work supported by the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture, under Agreement No. 2008-33610-19458. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the authors and do not necessarily reflect the view of the U.S. Department of Agriculture.

*"Our Business is Flowing"*

Alex Collins  
Provost & Pritchard  
286 W. Cromwell Avenue  
Fresno, CA 93711-6162

559-326-1100  
**Quote Number:** 12045RAN-P&PEng

## Sales Quotation

**Quote Expires on:** 5/7/2012

**Quote Date** 3/29/2012

Line #	Part #	Description	Price	Qty	Extend
		<b>Standard IQ</b>			
1	IQ Std	Standard IQ. Low profile (2.86-cm tall), five beam up-looking real-time acoustic Doppler current meter (3.0-MHz) with a measurement range of 1.5-m. Features dynamic measurement cell, average velocity via SmartPulseHD algorithms, vertical acoustic beam and pressure sensor for water level measurement, internal flow calculations for both instantaneous discharge as well as total volume. Integrated temperature sensor, tilt sensor, RS232, SDI-12, Modbus interface and 4 GB recorder. System includes mounting brackets, USB-RS232 serial adaptor, tool kit, power supply and memory drive with IQ software and technical documentation.	\$4,730.00	1	\$4,730.00
2	36-0012-010	10-m power and RS232/SDI-12/Modbus communications cable, compatible with the IQ Flow Display, 5-pin male dry-pluggable to 5-pin IQ connector	\$250.00	1	\$250.00
3	SON-FD	SonTek Flow Display.	\$945.00	1	\$945.00
		<b>IQ Plus</b>			
4	IQ Plus	IQ Plus. Low profile (2.86-cm tall), five beam up-looking real-time acoustic Doppler current meter (3.0-MHz). The IQ Plus includes an extended operating range to 5-m, advanced data processing including SmartPulseHD velocity profiling output (cell sizes as small as 0.02 m). Features dynamic measurement cell, vertical acoustic beam and pressure sensor for water level measurement, internal flow calculations for both instantaneous discharge as well as total volume. Integrated temperature sensor, tilt sensor, RS232, SDI-12, Modbus interface and 4 GB recorder. System includes mounting brackets, USB-RS232 serial adaptor, tool kit, power supply and memory drive with IQ software and technical documentation.	\$8,230.00	0	\$0.00
5	36-0012-010	10-m power and RS232/SDI-12/Modbus	\$250.00	0	\$0.00

Line #	Part #	Description	Price	Qty	Extend
6	0002-0001	<p>communications cable, compatible with the IQ Flow Display, 5-pin male dry-pluggable to 5-pin IQ connector</p> <p><b>Data Center</b></p> <p>Flow Meter Data Center</p> <p>HydroScientific West will supply and fabricate the following:</p> <ul style="list-style-type: none"> <li>- Weigmann enclosures NEMA 4/12 with back panels and locks</li> <li>- Enclosure Ground Lugs</li> <li>- DIN Rail Components</li> <li>- 20 watt Solar Panel</li> <li>- Charge Controller</li> <li>- 18 a/hour Battery</li> <li>- all components will be mounted, assembled, terminated, and tested before deployment in the field</li> </ul>	\$995.00	0	\$0.00

**Prices are good for 60 days.**

**1) Shipping and handling charges are prepaid and added to invoice. Shipment will be made by UPS Ground unless otherwise specified, FOB origin.**

**2) Payment terms are net 30 days upon approved credit. We also accept VISA & MasterCard**

**3) Quotation does not include applicable state and local taxes for your area**

**4) A 15% restocking fee will be applied to all cancelled orders.**

**5) Invoices that become 30 days past due will be charged a finance fee of 1.5% per month (18% annum) on the unpaid balance.**

<b>Sub-Total</b>	<b>\$5,925.00</b>
<b>Tax</b>	
<b>Total</b>	<b>\$5,925.00</b>

***We Sincerely appreciate  
your confidence in our  
Company***

***Please address your purchase order to:***

***SonTek***

***Attn: Lora Ellis***

***9940 Summers Ridge Rd.***

***San Diego, CA 92121***

***Phone: (858) 546.8327 x132***



**EXHIBIT 6.3**  
**ARGONAUT SW**  
**FLOWMETER**

Alex Collins  
Provost & Pritchard  
286 W. Cromwell Avenue  
Fresno, CA 93711-6162  
559-326-1100

# Sales Quotation

*"Our Business is Flowing"*

**EXHIBIT 6.3**

**Quote#:** 12043RAN-P&PEng

**Quote Date:** 3/29/2012 **Quote Expires:** 5/7/2012

Line #	Part #	Description	Price	Qty	Extend
		<b>Argonaut SW</b>			
1	SW-232	Argonaut-SW 3.0-MHz System. Real-time, up-looking, 2D acoustic Doppler current meter with programmable range selection (including Dynamic Boundary Adjustment), vertical acoustic beam for water-level measurement, multi-cell (10) current profiling, internal flow calculations, integrated temperature sensor, RS232/SDI-12 interface, and 4MB data storage in a low-profile (6.5cm) acetal pressure case (25m max. depth) with mounting plate. Windows-based software includes: ViewArgonaut (for data acquisition, analysis, and flow calculations); SonUtils (utility software for PCs and PDAs). Includes tool kit, power supply, and manual (PDF) on CD.	\$7,930.00	1	\$7,930.00
2	36-0003-010	10-m power and RS232/SDI-12 communications cable, Flow Display capable, 8-pin male wet-pluggable to 9-pin D-sub	\$550.00	1	\$550.00
3	6047-00500	Flow Display	\$850.00	1	\$850.00
		<b>Options</b>			
4	6047-00080	Modbus Interface Module (MIM)	\$850.00	0	\$0.00
5	6047-01026	Argonaut-SW urethane mounting shoe for use in pipe or open channel installations	\$590.00	0	\$0.00

**SUBMIT PURCHASE ORDER TO:**

SonTek  
c/o HydroScientific West  
Attn: Orders  
9940 Summers Ridge Rd.  
San Diego, CA 92121  
Phone: (858) 546.8327 x132  
Fax: (858) 546-8150  
orders@sontek.com

<b>Subtotal:</b>	\$9,330.00
<b>Tax</b>	
<b>Shipping:</b>	Pre-paid and Add
<b>TOTAL:</b>	<b>\$9,330.00</b>

<b>Quote Terms:</b>	60 days
<b>Freight:</b>	Prepaid and added to invoice
<b>FOB:</b>	Destination
<b>Payment Terms:</b>	Net 30 days upon approved credit (We also accept VISA & MasterCard )
<b>Taxes:</b>	Applicable sales tax will be added to invoice
<b>Cancelled Orders:</b>	15% restocking fee will be applied
<b>Finance Charges:</b>	18% per annum on past due invoices

